

CLAIMS

What is claimed is:

- 1 1. An apparatus comprising:
 - 2 a private branch exchange (PBX) switch;
 - 3 a residential gateway to receive channel associated signals (CAS) from
 - 4 the PBX switch;
 - 5 a programmable CAS module to convert the CAS signals into signals of
 - 6 another telephony protocol.
- 1 2. The apparatus of claim 1, wherein the programmable CAS module
 - 2 further comprises a programmable local call agent finite state machine to
 - 3 interpret events and to output user defined responses.
- 1 3. The apparatus of claim 1 further comprising a user interface tool to
 - 2 enable a user to create a CAS program file.
- 1 4. The apparatus of claim 3, wherein the CAS program file includes a
 - 2 system section, an incoming signals section, an outgoing signals section, and a
 - 3 state events action section.

